



Lithium Battery

	BHARAT SANCHAR NIGAM LIMITED (GOVT. OF INDIA)	QF-185
QUALITY ASSURANCE & INSPECTION CIRCLE, Bharat Sanchar Nigam Limited, 2nd Floor, 2nd Main, 4th Cross, Bangalore-560041.		
No. CCMQAAD/ITSC/MBR/BA/26-27827		Dated: 08.07.2024
INFRASTRUCTURE ASSESSMENT ADVICE		
1. Name & Address of the Manufacturer (Registered Office)	M/s Sunlit Power Pvt Ltd, Plot No.G.No. 3272, Mahila TS, Dondicha Road, Shalada, Nandurbar, Maharashtra-425405	
2. Reference letter	1. CCMQA & ICYTS/MBR/PPF-615/21/24-25/7 dated 25/8/2023 2. Registration No. MB/12923-26 dated 25/8/2023	
3. Name of the product(s)	Lithium-Iron Battery for Telecom applications: 48V/100AH	
4. Specification No. (with amendments if any)	IEC 61030:2024	
5. Date of infrastructure assessment	08.07.2024 to 09.07.2024, 01.08.2024 & 02.08.2024	
6. Proposed Manufacturing plan (Indigenous/SCDM/STP/OTI etc.)	Indigenous	
7. Collaboration (Foreign) if any	Nil	
8. Present Status of Manufacturing (on the date of visit)	Manufacturing of Lithium-Iron Battery Module 48V/100Ah (assembling from basic cell 3.2V/100Ah, LFP OCM, M/s Guangsheng Highpower New Energy Technology Co Ltd, China)	
9. Test Infrastructure	Adequate	
10. Test Infrastructure (R&D)	Adequate	
11. Assembly & Integration	Adequate	
12. Test Lab	Adequate	
13. Final product test Facilities	Adequate	
14. Repair Facility	Adequate	
15. Manufacturing Facility	The firm acknowledged the following sub-assemblies, Lithium-Iron from Ahlstrom Gates Pvt Ltd, White Field, Bangalore, Karnataka-560066 M/s Sunlit Power Pvt Ltd, Shalada Road, Nandurbar, Maharashtra-425405	
16. Mechanical assembly	Lithium-Iron Battery Module production capacity of 48V/100Ah is 100 K Units / Month	
17. Production Capacity	According to the purchase order No. 3, the production capacity of R&D, No. 2 per specification is 100 K units, above.	
18. Recommendation	The firm is having ISO9000 & ISO of basic cell, Lithium-Iron from Ahlstrom Gates Pvt Ltd, White Field, Bangalore, Karnataka-560066 The firm is having ISO 14001, New Energy Technology Co Ltd China for supplying 3.2V 100Ah, Voltage 3.2V, 100Ah, 3.2V, 100Ah	

Arenq Series



Telecom Series



ARENQ, a trusted brand by Sunlit Power Pvt. Ltd., offers cutting-edge Lithium Iron Phosphate (LiFePO₄) batteries designed specifically for telecom tower and BTS (Base Transceiver Station) applications. These batteries are engineered to deliver uninterrupted backup power, especially in off-grid, remote, or high-temperature sites. Certified by BSNL, tested in NABL-accredited labs. ARENQ batteries are approved for use in mission-critical telecom infrastructure across India.



BSNL Certified Product Approved and deployed in BSNL telecom sites, meeting national telecom-grade specifications.



100% Maintenance-Free
No spillage, corrosion, or water top-up required—ideal for remote or unmanned sites.



Fast Recharge Capability
Recharges 3x faster than lead-acid batteries—ensures readiness for the next outage.



Smart BMS with Remote Monitoring Monitors battery health, temperature, SOC, and communicates via RS485 / CAN with telecom systems



Reliable Long Backup
During grid or generator failure.



Performs in Harsh Conditions
Rugged operation in -10°C to +60°C with high thermal and mechanical stability.



The ARENQ Telecom Battery series range also includes 48V system from 100Ah to 2000Ah



General Characteristics

MODEL	ARENQLFP 48-100	ARENQLFP 48-200	ARENQLFP 48-800
Power(W)	4800	9600	38400
Nominal Voltage(V)	48		
Capacity (AH)	100	200	800
No of Cell in Series	15	15	15
No of Cell in Parallel	1	1/2	8
Total No of Cell	15	15/30	120
Cell Type	Prismatic		
Chemistry	LiFePO ₄		
Communication	RS485, can bluetooth optional		

Electrical Characteristics

Maximum Cut-Off Voltage (V)	54.75		
Minimum Cut-Off Voltage (V)	42		
Charging Voltage(V)	54.75		
Charging Current Range(A)	50	100	300
Discharging Current Range (A)	100	200	600
Cell Discharging Protection Level (V)	2.8		
Cell Charging Protection Level (V)	3.65		
Balancing Current (mA)	80 - 120 mA		
Cycle Life	6000+		
DOD Level	80%		

Temperature

Working Temperature (°C)	-20 C to +60 C		
Storage Temperature (°C)	23 C - 27 C (30% SOC)		
Dimension(mm)	Customised		
Weight (Kg) Approx.	50	95	850
Power Connector	As per Requirement		